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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/089,040		04/16/2002	Yoshio Umezawa	2002-0426A	9569
513	7590	10/06/2004	EXAMINER		
WENDEROTH, LIND & PONACK, L.L.P. 2033 K STREET N. W.				MOORE, WILLIAM W	
SUITE 800 WASHINGTON, DC 20006-1021			ART UNIT	PAPER NUMBER	
				1652	
				DATE MAILED: 10/06/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summan	10/089,040	UMEZAWA ET AL.
Office Action Summary	Examiner	Art Unit
The MAN WAS BASES	William W. Moore	1652
The MAILING DATE of this communic Period for Reply	cation appears on the cover sheet wi	ith the correspondence address
A SHORTENED STATUTORY PERIOD FO THE MAILING DATE OF THIS COMMUNIO - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this commu- If the period for reply specified above is less than thirty (30) - If NO period for reply is specified above, the maximum statu- - Failure to reply within the set or extended period for reply Any reply received by the Office later than three months afte earned patent term adjustment. See 37 CFR 1.704(b).	JATION. f 37 CFR 1.136(a). In no event, however, may a nication. days, a reply within the statutory minimum of thirty attory period will apply and will expire SIX (6) MON will be statute asset the policy of the course the cour	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication.
Status		
1) Responsive to communication(s) filed	on	
	o)⊠ This action is non-final.	
3) Since this application is in condition fo	or allowance except for formal matter	ers prosecution as to the merita in
closed in accordance with the practice	e under <i>Ex parte Quayle</i> , 1935 C.D.	11, 453 O.G. 213.
Disposition of Claims		,
4)⊠ Claim(s) <u>1-11</u> is/are pending in the app	oliootio-	
4a) Of the above claim(s) is/are		
5) Claim(s) is/are allowed.	withdrawn from consideration.	
6)⊠ Claim(s) <u>1-11</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction	on and/or election requirement.	
pplication Papers		
9)☐ The specification is objected to by the E	xaminer	
10) The drawing(s) filed on is/are: a) accepted or b) objected to by	the Evaminor
Applicant may not request that any objectio	n to the drawing(s) be held in abeyance	See 37 CER 1.85(a)
Replacement drawing sheet(s) including the	e correction is required if the drawing(s)	is objected to See 37 CER 1 121/d)
11)☐ The oath or declaration is objected to by	y the Examiner. Note the attached (Office Action or form PTO-152.
riority under 35 U.S.C. § 119		
	forcion missibus de OS II O O O	
12) Acknowledgment is made of a claim for a) All b) Some * c) None of:	To leight priority under 35 U.S.C. § 1	19(a)-(d) or (f).
1. Certified copies of the priority doc	cuments have been received	
2. Certified copies of the priority doc	Suments have been received in App	dination No.
3. Copies of the certified copies of the	he priority documents have been re	ecoived in this National Stars
application from the International	Bureau (PCT Rule 17.2(a))	ceived in this National Stage
* See the attached detailed Office action fo	or a list of the certified copies not re	ceived
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achment(s) Notice of References Cited (PTO-892)	🗁	
Notice of Draftsperson's Patent Drawing Review (PTO-S	4) Interview Sum	mary (PTO-413) lail Date
Information Disclosure Statement(s) (PTO-1449 or PTO.	/SB/08) 5) 🔲 Notice of Infor	mal Patent Application (PTO-152)
Paper No(s)/Mail Date	6) Other:	•

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Application/Control Number: 10/089,040

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DETAILED ACTION

Response to Amendment

Applicant's preliminary Amendment filed April 16, 2004, has been entered, perfecting a claim to priority under 35 U.S.C. §§ 119(a)-(d) and correcting obvious errors in paragraphs at pages 7, 9 and 12 of the specification as well as amending claims 4-6, 8, 10 and 11 to remove improper multiple dependencies. Claims 1-11 are pending and examined herein.

Specification

The disclosure is objected to because of the following informalities: 35 U.S.C. § 112, first paragraph, requires the specification to be written in "full, clear, concise, and exact terms." The specification is replete with terms which are not clear, concise and exact. The specification should be revised carefully in order to comply with 35 U.S.C. § 112, first paragraph. Examples of some unclear, inexact or verbose terms used in the specification are: None among the second and third paragraphs at page 5, the second and third full paragraphs at page 10, the first two paragraphs at page 11, the paragraph spanning pages 13 and 14 and the following paragraph at page 14, provide any structural basis for determination of the orientation of the amino acid sequences in any component of a "probe". A paragraph spanning pages 11-12 erroneously suggests that endonucleases associated with inteins somehow facilitate "automatic . . . excision". The term "m125" appearing at lines 15 and 20 of page 17 is not explained. The second paragraph at page 18 does not provide any structural basis for determination of the orientation of the nucleic acid components of a plasmid the "covers" a "VDE" region. It is not clear the disclosure provides a basis for claims defining the structural relationships of components of "probes" of the pending claims 1-9 required for practice of methods of claims 10 and 11. Correction or clarification is required.

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Claim Objections

Claim 11 is objected to because of the following informalities: Use of the present tense of the verb "to link" at the close of line 2 of the claim is grammatically incorrect. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. § 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-11 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1-3 are indefinite in failing to describe any structural relationship, or orientation, for components of a "probe" so that the public and the artisan seeking to determine the metes and bounds of the intended subject matter can recognize the structure of the "probe" or the organization of its components. It is not clear, for instance, whether or not Applicant intends that separate portions of a split intein, or two separate and integral inteins, are to be comprised in a "probe". Claims 4-11 are included in this rejection because they depend from claims 1 and 2 but fail to resolve the ambiguities of the claims from which they depend. Claim 4 is independently indefinite because it erroneously recites, "the intein is an endonuclease derived from yeast VMA", misstating the intended subject matter where the *S. cerevisiae* VMA intein is not an endonuclease; instead, the yeast VMA intein comprises an endonuclease domain Applicant removed in forming two "split" inteins according to the specification.

Claim 10 is independently indefinite because the method it describes is incomplete because "making" a "probe a" and a "probe b" "coexist in a system" has no clear relationship with the purpose stated in the claim preamble, "analyzing protein-protein interaction". Claim 11 is included in this rejection of claim 10 because it fails to resolve the ambiguities of the claim from which it depends.

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Conclusion

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William W. Moore whose telephone number is now 571.272.0933. The examiner can normally be reached between 9:00AM and 5:30PM EST. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapura Achutamurthy, can now be reached at 571.272.0928. The fax phone numbers for all communications for the organization where this application or proceeding is assigned remains 703.872.9306. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is now 571.272.1600.

William W. Moore September 30, 2004